

EDUCATION

Cornell University College of Engineering, Ithaca, NY *Expected 2022*
GPA: 4.1 (out of 4.3), *Candidate for Bachelor of Science in Electrical and Computer Engineering*
Honors: Dean's List

Bethlehem Central High School, Delmar, NY *Graduated June 2018*
GPA: 97 (unweighted), **SAT: 1580**, **ACT: 35**
Honors: Art Honor Society, Math Honor Society, National Honor Society
Awards: National Merit Finalist, University of Rochester Bausch + Lomb Award, New York State Scholarship for Academic Excellence

RESEARCH EXPERIENCE

Erickson Lab, Cornell University *January 2019 - Present*

- Execute experiments using H.E.R.M.E.S device for blood-plasma separation at the point-of-need then collect and analyze data
- Develop ways to utilize PCR without the need to separate further particles out of erythrocyte depleted blood
- Collaborate with Ph.D. student on creating point-of-need sepsis diagnostic and gonorrhea antibiotic resistivity testing devices

Neuroscience Intern, Neural Stem Cell Institute, Rennselaer, NY *Summer 2017*

- Assisted lab staff in developing regenerative stem cell therapies for diseases of the central nervous system
- Improved experience with lab techniques such as staining, microscopy, gel electrophoresis, feeding cells, and cleaning cells

Muhlenberg Brain Camp, Muhlenberg College, PA *Summer 2017*

- Selected for free week-long program, conducted research with a professor on memory consolidation and PTSD
- Utilized virtual reality to study working memory consolidation, demonstrated that memories can be hidden from retrieval without being erased by using a visuospatial distractor during the consolidation phase
- Research picked up by Muhlenberg students to test on larger scale after preparing poster presentation and speaking at symposium

WORK/VOLUNTEER EXPERIENCE

Fibrodysplasia Ossificans Progressiva (FOP) Charity Events *2015 - 2017*

- Orchestrated logistics for two charity events (2015 Awake for a Cure and 2017 Cheers for a Cure) for FOP research
- Raised \$76,000 for international FOP research center at the University of Pennsylvania

Mathematics and Science Tutor *2014 - 2018*

- Helped younger students review class material and complete problem sets, created worksheets and practice tests

Food Service/Delivery Driver, Mercato's Pizzeria and Restaurant, Delmar, NY *Summer 2018*

- Worked as hostess, served tables, and delivered for local Italian restaurant

EXTRACURRICULAR ACTIVITIES

Theta Tau Professional Engineering Fraternity *January 2019 - Present*

Pi Class Philanthropy chair

- Underwent eight-week new member education training that focused on professional development and leadership skills
- Organize philanthropy events for fraternity to participate in, engage with peers through workshops such as resume critiques

International Genetically Engineered Machine (iGEM) *October 2018 - Present*

Product Developer

- Design and manufacture products throughout school year and summer to solve problems related to medicine, the environment, human and animal health
- Compete annually at iGEM Giant Jamboree in Boston with award-winning synthetic biology research team

Hillel *September 2018 - Present*

Engagement Committee Member

- Supervise social events for Jewish students that facilitates relationships between Jewish peers
- Participate in weekly events including Shabbat dinners, coffee tabs, and holiday celebrations

Society of Women Engineers (SWE) *September 2018 - Present*

General Publicity Committee Member

- Campaign about SWE events on campus such as networking dinners with a long-term goal of achieving equality in STEM
- Meet to discuss opportunities for professional development as well as foster relationships between fellow students

Music

- **Tenor Saxophone** – Bethlehem Central High School Wind Ensemble (1st chair), Jazz Band (1st chair) *2010 - 2018*
- **Piano** – Level 6 NYSSMA participant (Received score of 94 on most recent – 2017) *2008 - 2018*

Sports

- **Soccer** – Cornell Intramural Soccer, Bethlehem Central High School (JV and Freshman Captain) *2012 - Present*
- **Track and Field** – Bethlehem Central High School, ran mid-distance events including the 800m and 1500m *2014 - 2018*

SKILLS AND INTERESTS

Skills: Java (2 years), Python (1 year), and MATLAB (1 semester), HTML & CSS (basic)

Interests: Poetry, Hiking, Piano, Running, Painting, Skiing, Baking, Traveling, Sudoku, Crime Shows, Human Brains, Puns